3)

#include<iostream>

using namespace std;

class fibo

{

int n;

public:

fibo()

{

cout<<"enter n";

cin>>n;

genfibo();

}

void genfibo()

{

int a=0, b=1, c ;

cout <<a <<" "<<b<< " ";

for(int i =0; i <n-2; i++)

{

c = a+b;

cout<<c <<" ";

a=b;

b=c;

}

}

};

int main()

{

fibo f;

}

4)

#include<iostream>

using namespace std;

class vowel

{

char str[30];

public:

vowel()

{

int v=0, c=0;

cout<<"enter the string";

cin.getline(str, 30);

cin>>str;

for(int i =0; str[i]!='\0', i++)

{

if(isalpha(str[i])

{

switch(str[i])

{

case 'a' :

case 'e':

case 'i' :

case 'o':

case 'u':

v++;

break;

default :

c++;

}

}

}

cout<<"the no of consonants are "<<c;

cout<<"the no of vowels are "<<v;

}

};

int main()

{

vowel v1;

}

OR

const char vowels[5] = {'a', 'e', 'i', 'o', 'u'};

bool isVowel(char c) {

c = tolower(c);

for (int i = 0; i < 5; i++)

if (vowels[i] == c)

return true;

return false;

}

for(int i =0; str[i]!='\0'; i++)

{

if(isVowel(str[i]))

v++;

else

c++;

}

5)

#include<iostream>

using namespace std;

#define n 10;

class num\_list

{

int num[n];

public:

void read\_list()

{

cout<<"enter the elements in the array";

for(int i =0; i <n; i++)

cin>>num[i];

}

void calc\_product()

{

int p=1;

for(int i =0; i <n; i++)

p=p\*num[i];

cout<<"the product is "<<p;

}

};

int main()

{

num\_list l;

l.readlist();

l.calc\_product();

}